Project Name:	White Mountain Estates	Excavation Date: (startup)	14-Jul-04
Project Number:	2004-G017A	Excavation Method:	Mud Rotary
Client:	White Mountain Estates, LLC	Boring Diameter:	9 7/8" / 12 1/4"
Location:	Approximately 10 miles north of Bishop,	Well Casing Diameter:	8" PVC
	California; approximately 1 mile east of	Depth to Groundwater:	203.13 ft BTC
	intersection of Highway 6 and WME Road	Total Depth of Boring:	338 ft BTC
Elevation:	Approximately 4400 feet MSL	Screen Interval(s):	238-338 ft BTC

GS ENVIRONMENTAL

Sample NR	Sample R	Hammer Wt. (lbs.) Blows /foot (6"/12"/18")	Depth (feet)	I.D. Well Construction	Lithology	USCS	Surface Conditions: Alluvial fan deposits; silty (clayey) to sandy gravel — Description
			0	8" 6" Concrete; Cement seal		GM	Silty to fine sandy GRAVEL: lithic fragments of volcanic and metasedimentary rocks, and quartz; small pebbles are present and are subrounded to subangular
			5				
			10				•Gravel appears to coarsen, drill stem bouncing & chatter
			15				•Increase in sand, fine to coarse grained
			20				" "
			25				" "
			30	?			•Possible perched GW / highly suspect?
			35	8" dia blank PVC casing			•Gravel appears coarser, moderate drill stem bouncing & chatter
			40				" "
			45				" "
			50			GW/SW	Silty to fine sandy GRAVEL as above but with increase in fine to coarse grained sand; gravel less abundant
			55	55 TOS		GW	Fine to coarse sandy GRAVEL: lithic fragments appear to be mostly dark volcanic/metavolcanic(?) with some quartz; other metamorphic rock fragments present.
			60				•Increase in sand @ 60 feet
			65			GW/SW	Medium to coarse grained sandy GRAVEL: lithic fragments mostly dark volcanics with some small subrounded pebbles, some metamorphic fragments; hard drilling and drill stem chatter
			70	12 1/4" diameter overdrill borehole		GP	•Less sand than above; dark lithic fragments & small subrounded pebbles @ 70 ft
			75				
			80			SW/GW	SAND with gravel: sand is mostly medium to coarse grained, subangular with trace subrounded, mostly quartz & volcanic & metamorphic lithics; gravel as above
			85			SW	Sand as @ 80 feet
			90	1/16" - 1/4" dia. bird's eye filter gravel		GW/SW	GRAVEL with sand: sand is fine to coarse grained, subangular; gravel similar to above
			95			SW	SAND with trace gravel: sand is fine to coarse grained, subangular to trace subrounded, mostly quartz, some lithics

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GS ENVIRONMENTAL

Sample NR	Sample R	Hammer Wt. (lbs.) Blows /foot (6"/12"/18")	Depth (feet)	I.D. Well Construction	Lithology	USCS	Surface Conditions: Alluvial fan deposits; silty (clayey) to sandy gravel — Description
			100			SW	•SAND as @ 95 ft
			105			GW/SW	SAND with gravel: sand is fine to coarse grained, subangular; drill cuttings contain abundant lithic fragments similar to those @ 80 ft
						GW	GRAVEL: similar to 80 ft sample but less sand
			110			SW	Gravelly SAND: sand is fine to coarse grained, subangular to subrounded, mostly quartz but with feldspar and other lithic grains; gravel is generally pebble size, subangular to subrounded; both pebble gravel and lithic fragments composed of volcanics and other igneous and metamorphics
			115				
			120				
			125	8" dia blank PVC casing			•Gravel content greatly reduced @120 ft
			130				
			135				
			140			GW	Sandy fine GRAVEL: gravel mostly pebble size, subangular to angular fragments of dark volcanic/metavolcanics(?);
			145			SW	sand is medium to coarse grained, subangular, mostly quartz and other rock fragments
			150				SAND: medium to coarse grained, subangular, mostly quartz and other ingneous and metamorphics
			155				•Trace fine GRAVEL @ 150 ft
			160	12 1/4" diameter overdrill borehole		GW	•Sandy GRAVEL similar to that @ 140 ft
			165			SW	SAND: medium to coarse grained, subangular, mostly quartz and other ingneous and metamorphics
			170			GW	•Sandy GRAVEL similar to that @ 160 ft
			175			SW	Gravelly SAND: sand is medium to coarse grained, subangular, mostly quartz and lithics; gravel is fine
			180				•Grain size range fine to coarse sand, no gravel @180 ft
			185	1/16" - 1/4" dia. bird's eye filter gravel			•Trace gravel @ 185 ft to 195 ft
			190				
			195				

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Client:	White Mountain Estates, LLC	Boring Diameter:	9 7/8" / 12 1/4"
Location:	Approximately 10 miles north of Bishop,	Well Casing Diameter:	8" PVC
	California; approximately 1 mile east of	Depth to Groundwater:	203.13 ft BTC
	intersection of Highway 6 and WME Road	Total Depth of Boring:	338 ft BTC
Elevation:	Approximately 4400 feet MSL	Screen Interval(s):	238-338 ft BTC

GS ENVIRONMENTAL

Sample NR	Sample R	Hammer Wt. (lbs.) Blows /foot (6"/12"/18")	Depth (feet)	I.D. Well Construction	Lithology	USCS	Surface Conditions: Alluvial fan deposits; silty (clayey) to sandy gravel — Description
			200			SW	SAND: fine to coarse grained, subangular; with trace of fine gravel, subangular to angular fragments
			205	203 DTW		SM	Silty SAND: fine to medium grained, subangular, quartz and lithics of igneous(?) composition
			210	8" dia blank PVC casing			
			215			SW	SAND: fine to medium grained, subangular; with trace of fine gravel, subangular to angular fragments
			220				
			225			GW	Sandy fine GRAVEL: gravel mostly pebble size, subangular to angular fragments of dark volcanic/metavolcanics(?); sand is medium to coarse grained, subangular, mostly quartz and other rock fragments
			230			SW	•SAND similar to that @ 220 ft
			235				
			240	238 TOS			
			245				
			250	12 1/4" diameter overdrill borehole			
			255				
			260				
			265			GW	Sandy GRAVEL: gravel mostly fine grained, subrounded to angular fragments of dark igneous composition; sand is fine to coarse grained, subangular, mostly quartz and other igneous(?) rock fragments
			270	0.032" slotted PVC 8" casing			
			275				
			280				
			285	1/16" - 1/4" dia. bird's eye filter gravel			
			290				
			295				

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	California; approximately 1 mile east of	Depth to Groundwater:	203.13 ft BTC
	intersection of Highway 6 and WME Road	Total Depth of Boring:	338 ft BTC
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Sample NR	Sample R	Hammer Wt. (lbs.) Blows /foot (6"/12"/18")	Depth (feet)	I.D. Well Construction	Lithology	USCS	Surface Conditions: Alluvial fan deposits; silty (clayey) to sandy gravel Description
			300	12 1/4" diameter overdrill borehole		GW	Sandy GRAVEL as @ 295 ft
			305			SW/GW	SAND with gravel: sand is mostly fine to medium grained, subangular, with mostly quartz & volcanics; some lithic fragments; gravel as above
			310			SW	SAND: fine to coarse grained, subangular, with lithic fragments
			315			GW	Sandy GRAVEL: gravel mostly fine grained, subrounded to angular fragments of dark igneous composition; sand is fine to coarse grained, subangular, mostly quartz and other igneous(?) rock fragments
			320				
			325				
			330			SW	SAND: fine to coarse grained, subangular, with lithic fragments similar to that @ 310 ft
			335				
			340	338 BOS		GW	Sandy GRAVEL as @ 315 ft to 330 ft
			345			SW	SAND: fine to coarse grained, subangular, with lithic fragments similar to that @ 330 ft to 340 ft
			350				
			355				
			360	9 7/8" diameter pilot borehole			
			365				
			370				
			375				
			380	Pilot borehole backfilled with overdrill debris			
			385				Total depth of pilot boring 390 feet below surface grade
			390				
			395				